

UNIVERSITY OF MISSOURI-ST. LOUIS
AND
SOUTHWESTERN ILLINOIS COLLEGE

COURSEWORK LEADING TO BACHELOR OF ARTS IN

BIOCHEMISTRY & BIOTECHNOLOGY

FIRST SEMESTER

SWIC

ENG 101 Rhetoric & Comp I (3)
* MATH 112 College Algebra (4)
PSYC 151 General Psychology (3)
BIOL 101 Princip. of Biology I (4)
PHIL 155 Non-Western Phil (3)

Hours: (17)

UMSL Equiv.

Approved Elective
Math 1030
Psych 1003
Biol 1811
Gen Ed/CD

SECOND SEMESTER

SWIC

ENG 102 English Comp II (3)
BIOL 280 Intro to Cell Biology (4)
**CHEM 105 General Chem I (5)
MATH 114 Trigonometry (3)

Hours: (15)

UMSL Equiv.

Eng 1100
Biology Elective
Chem 1111
Math 1035

THIRD SEMESTER

SWIC

CHEM 106 General Chem II (5)
PHYS 151 General Physics I (4)
MATH 213 Calc for BUS/SS (4)
or
MATH 203 Analyt Geo Calc I
(5)
US History Course (180 or 181) (3)

Hours: (17-18)

UMSL Equiv.

Chem 1121
Phys 1011
Math 1100
Math 1800

Hist 1001/1002

FOURTH SEMESTER

SWIC

PHYS 152 General Physic II (4)
HLTH 151 Health (2)
MUSC 101 Music Appreciation **or**
ART 101 Art Appreciation (3)

CHEM 201 Organic Chemistry I (5)
PHIL 152 Ethics (3)

Hours: (17)

UMSL Equiv.

Phys 1012

Music 1001
Soc 3200

FIFTH SEMESTER

UMSL

BIOL 2012 Genetics (3)
BIOL 2013 Genetics Lab (2)
BIOL 3622 Cell Biology (3)
ENG 3160 Writing in the Sciences (3)
CHEM 2622 Organic Chemistry II (3)

Hours: (14)

SIXTH SEMESTER

UMSL

CHEM 2223 Quantitative Analysis (3)
BIOL 2482 Microbiology (3)
BIOL 2483 Microbiology Lab (2)
BIOL 4712 Biochemistry (3)
CHEM 2633 Organic Chemistry Lab (2)

Hours: (13)

SEVENTH SEMESTER

UMSL

BIOL 4713 Techniques in Biochemistry (3)
BIOL 4602 Molecular Biology (3)
Chem 4722 Advanced Biochemistry (3)
BIOL 4614 Biotechnology Lab I (4)
Chem 3302 Physcial Chem for Life Science (3)

Hours: (16)

EIGHTH SEMESTER

UMSL

Biochemistry Electives (9)
BIOL 4615 Biotechnology Lab II (4)
One of the following:
MATH 1310 Elementary Stat Methods (3)
MATH 1320 Applied Statistics I (3)
EDU 5730 Educational Statistics (3)
PSYC 2201 Psychological Statistics (3)
BIOL 4122 Biometry (3)

Hours: (16)

NOTE: See back of page for additional information.

DEGREE NOTES:

*Students begin their Math Sequence based on results of SWIC Math Placement Test.

**MATH 112 College Algebra is the required prerequisite for CHEM 105 General Chemistry I.

Minimum of 120 hours required for the BA in Biochemistry & Biotechnology

Students completing an AA/AS degree from SWIC that includes the IAI approved general education core will be allowed transfer credit of more than 64 hours only if the additional lower division credits are applicable to the baccalaureate degree or are prerequisites for upper division courses in the major.

Maximum of 60 hours may transfer without AA/AS degrees

Please seek advisement from your SWIC Counselor for assurance of completion of the Associate Degree

Students living in the Illinois counties of Madison, Monroe, St. Clair, and Jersey are eligible for the in-state tuition rate.

CONTACT INFORMATION:

NOTE: IT IS IMPORTANT TO CONTACT THE UM-ST. LOUIS TRANSFER COORDINATOR EACH SEMESTER

Maya Scruggs, UM-St. Louis Transfer Coordinator, 225 MSC, 314-516-5873 or mms966@umsl.edu

For additional information, contact Carol Weber in the UM-St. Louis Biology Department, 223 Research Building, 516-6200 or cweber@umsl.edu.